



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera](http://www.miamidade.gov/pera)

**Tremco Inc.**  
**3735 Green Road**  
**Beachwood, OH 44122**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA – Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Tremco Built-Up-Roof Systems over Concrete Decks.**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 07-0321.09 and consists of pages 1 through 17.  
The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 11-1222.13**  
**Expiration Date: 03/28/13**  
**Approval Date: 04/12/12**  
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## ROOFING SYSTEM APPROVAL

<b><u>Category:</u></b>	Roofing
<b><u>Sub-Category:</u></b>	BUR
<b><u>Deck Type:</u></b>	Concrete
<b><u>Material:</u></b>	Fiberglass
<b><u>Maximum Design Pressure</u></b>	-405 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
BURMastic® Adhesive	5 or 55 gallon	Proprietary	Cold applied ply sheet and surfacing adhesive.
BURMastic® Composite Ply	36" x 66.6'	ASTM D 4601 Type II	Type II asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
BURMastic® FR		Proprietary	Cold applied, fire rated flood coat.
BURMastic® Glass Ply	36" x 72'	ASTM D 4601 Type II	Asphalt impregnated polyester/fiberglass/polyester composite for use in conventional and modified bitumen built-up roofing.
Double-Duty Aluminum™	5 gallon	ASTM D 2824	Aluminum pigmented roof coating.
Fas-n-Free® Adhesive		Proprietary	One part, solvent free adhesive used for adhering Approved insulations to Approved substrates.
Poly-THERM® Roofing Ply	10 squares per roll 39¾" wide	Proprietary	Continuous filament, spunbonded polyester ply sheet for use in conventional and modified bitumen built-up roof systems.
Premium III™	100 lb.	ASTM D 312	Type III asphalt for use in built-up roofing systems.
Premium IV™	100 lb.	ASTM D 312	Type IV asphalt for use in built-up roofing systems.
THERMastic® Adhesive	60 lb.	Proprietary	All purpose roof cement.
THERMglass® IV	3' x 180'	ASTM D 2178 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built-up roof systems.
THERMglass® VI	3' x 180'	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roof systems.
TREMprime™ Q.D.	1, 5 or 55 gallon	ASTM D 41	Asphalt based roofing primer.
Tremprime® WB	5 gallon	Proprietary	Water based roofing primer.



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Tremlastic S	5 and 55 gallon	Proprietary	Non-fibered, polymer modified asphalt emulsion.
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**APPROVED INSULATIONS:**

**TABLE 2**

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3, ENRGY 3 Plus	Polyisocyanurate foam insulation	Johns Manville
ACFoam II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products
Multi-Max-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
Perlite	Perlite insulation	Generic
High Density Wood Fiberboard	Wood fiberboard insulation	Generic

**APPROVED FASTENERS:**

**TABLE 3**

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast Fasteners #12 HS (with plate)	Carbon Steel, Senti (black)	Various	SFS Intec.
2.	Dekfast Fasteners #14 HS (with plate)	Carbon Steel, Senti (black)	Various	SFS Intec.
3.	Dekfast Fasteners #15 HS (with plate)	Carbon Steel, Senti (black)	Various	SFS Intec.
4.	#12 Standard Roofgrip (with plate)	Carbon Steel, SPEX (black) or Climaseal (blue)	Various	OMG, Inc.
5.	#14 Roofgrip (with plate)	Carbon Steel, SPEX (black) or Climaseal (blue)	Various	OMG, Inc.
6.	#15 Roofgrip (with plate)	Carbon Steel, SPEX (black) or Climaseal (blue)	Various	OMG, Inc.
7.	OMG Heavy Duty (with plate)	Carbon Steel, CR-10 or Answer Coating (black)	Various	OMG, Inc.
8.	OMG XHD, (with plate)	Carbon Steel, CR-10 or Answer Coating (black)	Various	OMG, Inc.
9.	OMG Super XHD (with plate)	Carbon Steel, CR-10 or Answer Coating (black)	Various	OMG, Inc.
10.	CD-10 (with plate)	Carbon Steel, Black Coating	Various	OMG, Inc.
11.	Fluted Nail (with plate)	Carbon Steel, Black Coating	Various	OMG, Inc.



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**APPROVED FASTENERS:****TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
12.	AccuTrac Hextra (with plate)	Carbon Steel, SPEX (black) or Climaseal (blue)	Various	OMG, Inc.
13.	Tru-Fast CF Tap Grip (with plate)	Carbon Steel Tru-Kote Coating	Various	The Tru-Fast Corp.

**EVIDENCE SUBMITTED:**

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Description</u></b>	<b><u>Date</u></b>
Applied Research Laboratories	27076	physical properties	
Factory Mutual Research Corporation	J.I. #0P9A9.AM	FM 4470	10/27/88
	J.I. #0R9A6.AM	FM 4470	01/02/90
	J.I. #2Y5A2.AM	FM 4470	11/16/94
	J.I. #1T6A9.AM	FM 4470	08/24/91
	J.I. #0T3Q9.AM	FM 4470	10/01/91
	J.I. #0Z8A3.AM	FM 4470	06/13/95
	J.I. #2D1A8.AM	FM 4470	07/27/00
	J.I. #0D0A9.AM	FM 4470	08/01/00
PRI Asphalt Technologies, Inc.	TRE-15-02-01	Physical Properties	05/25/99
Underwriters Laboratories, Inc.	R4170	UL790	01/01/95
Exterior Research & Design, LLC.	4544.07.96-1	TAS 114	07/30/96

## APPROVED ASSEMBLIES

**Membrane Type:** BUR

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(1):** All layers of insulation adhered with approved adhesive.

**All General Limitations apply.**

One or more layers of the following insulations:

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>AC-Foam II, ENRGY 3, ENRGY 3 Plus Minimum: 1.3" thick</b>	N/A	N/A
<b>Multi-Max-3 Minimum: 1.4" thick</b>	N/A	N/A
<b>Miami-Dade Approved High Density Wood Fiber Minimum: ½" thick</b>	N/A	N/A
<b>Miami-Dade Approved Perlite Minimum: ¾" thick</b>	N/A	N/A

**Note:** Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet or base insulation layer. All Insulation shall be adhered to the anchor sheet or primed deck in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per square. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of THERMglass IV or THERMglass VI or PolyTHERM ply sheet adhere to insulation or based sheet with THERMastic, Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply or three or four plies of Approved Type IV or Type VI ply sheet adhered to insulation or base sheet with Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply. (See specification number for appropriate number of plies).

**Surfacing:** (Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with Double Duty Aluminum coating at ¾ gal./sq.,
2. Flood coat of BURMastic and gravel at application rates of 5-6 1/5 gal./sq. and 400 lbs./sq., respectively.

**Maximum Design**

**Pressure:** -45 psf; (See General Limitation #9.)



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**Membrane Type:** BUR

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(2):** All layers of insulation adhered with approved adhesive.

**All General and System Limitations apply.**

One or more layers of the following insulations:

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>AC-Foam II, ENRGY 3, ENRGY 3 Plus, Multi-Max-3 Minimum: 1" thick</b>	N/A	N/A
<b>Miami-Dade Approved High Density Wood Fiber Minimum: ½" thick</b>	N/A	N/A
<b>Miami-Dade Approved Perlite Minimum: ¾" thick</b>	N/A	N/A

**Note:** Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet or base insulation layer. All insulation shall be adhered to the anchor sheet or primed deck in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per square. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of BURmastic Composite Ply, BURmastic Glass Ply or approved ASTM D 4601 fiberglass base ply sheet adhered in 3.5 gal./sq. ± 15% of BURmastic adhesive (See specification number for appropriate number of plies).

**Surfacing:** (Required) Install one of the following:

- Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with one of the following:
  - Double Duty Aluminum coating at ¾ gal./sq.
  - 60 lbs. #11 3M roofing granule's in wet Tremlastic S.
  - Crushed Stone, nominal 3/64"-3/8" at 240lbs./sq. in wet Tremlastic S.
- Flood coat of BURMastic and gravel at application rates of 5-6 1/5 gal./sq. and 400 lbs./sq., respectively

**Maximum Design Pressure:** -45 psf; (See General Limitation #9)



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**Membrane Type:** BUR  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(3):** All layers of insulation adhered with approved adhesive.

**All General and System Limitations apply.**

**Insulation:** **Min. 1.5" thick AC Foam II, ENRGY-3 or Multi-Max-3** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. followed by **Min. ½" thick Miami-Dade Approved High Density Wood Fiberboard** adhered to the base insulation layer in a similar manner.  
**OPTION #1:** *Maximum Design Pressure: -252.5 psf (See General Limitation #9.)*

**OPTION #2:** **Min. 1.5" thick AC Foam II, ENRGY-3 or Multi-Max-3** adhered to the primed concrete deck in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq. followed by **Min. ½" thick Miami-Dade Approved High Density Wood Fiberboard** adhered to the base insulation layer in a similar manner.  
*Maximum Design Pressure: -195 psf (See General Limitation #9.)*

**OPTION #3:** **Min. 1.5" thick AC Foam II, ENRGY-3 or Multi-Max-3** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq. followed by **Min. ¼" thick Dens Deck** adhered to the base insulation layer in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq.  
*Maximum Design Pressure: -405 psf (See General Limitation #9.)*

**OPTION #4:** **Min. 1.5" thick ENRGY-3 Plus** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq.  
*Maximum Design Pressure: -335 psf (See General Limitation #9.)*

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of THERMglass IV or THERMglass VI or PolyTHERM ply sheet adhered to insulation or base sheet with THERMastic, Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply or three or four plies of Approved Type IV or Type VI ply sheet adhered to insulation or base sheet with Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply.. (See specification number for appropriate number of plies).

**Surfacing:** (Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with Double Duty Aluminum coating at ¾ gal./sq
2. Flood coat of THERMastic and gravel at application rates of 3.5 gal./sq. and 400 lbs./sq., respectively.
3. Flood coat of BURMastic and gravel with applications rates of 4-5 gal./sq. and 400 lbs/sq., respectively.

**Maximum Design Pressure:** See Insulation Options



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**Membrane Type:** BUR  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(4):** All layers of insulation adhered with approved adhesive.

**All General and System Limitations apply.**

**Insulation:** **Min. 1.5" thick AC Foam II, ENRGY-3 or Multi-Max-3** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq. followed by **Min. ½" thick Miami-Dade Approved High Density Wood Fiberboard** adhered to the base insulation layer in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq.

**Maximum Design Pressure: –165 psf (See General Limitation #9.)**

**OPTION #2:** **Min. 1.5" thick AC Foam II, ENRGY-3 or Multi-Max-3** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq. followed by **Min. ¼" thick Dens Deck** adhered to the base insulation layer in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq.

**Maximum Design Pressure: –240 psf (See General Limitation #9.)**

**OPTION #3:** **Min. 1.5" thick ENRGY-3 Plus** adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per sq.

**Maximum Design Pressure: –405 psf (See General Limitation #9.)**

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of BURmastic Composite Ply, BURmastic Glass Ply adhered in 3.5 gal./sq. ± 15% of BURmastic adhesive (See specification number for appropriate number of plies).

**Surfacing:** (Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with one of the following:
  - a) Double Duty Aluminum coating at ¾ gal./sq.
  - b) 60 lbs. #11 3M roofing granule's in wet Tremlastic S.
  - c) Crushed Stone, nominal 3/64"-3/8" at 240lbs./sq. in wet Tremlastic S.
2. Flood coat of BURMastic and gravel at application rates of 5-6 1/5 gal./sq. and 400 lbs./sq., respectively

**Maximum Design Pressure:** See Insulation Options



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<b>Membrane Type:</b>	BUR
<b>Deck Type 3I:</b>	Concrete Decks, Insulated
<b>Deck Description:</b>	2500 psi structural concrete or concrete plank
<b>System Type B(1):</b>	Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ENRGY-3</b>		
<b>Minimum: 1.4" thick</b>	1, 2, 3 4, 5, 6, 7, 8, 9	1:3 1:4
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:4
<b>ISO 95 + GL</b>		
<b>Minimum: 1.4" thick</b>	10 4, 5, 6	1:3 1:4
<b>Multi-Max-3</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:2.9
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	See any approved fastener in table 3	1:2
<b>Miami Dade Approved High Density Wood Fiberboard</b>		
<b>Minimum: ½" thick</b>	See any approved fastener in table 3	1:4

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastener details.

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
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**Any of the insulations listed for Base Layer, above.**

**Note:** Apply top layer of insulation in a full mopping of approved hot asphalt applied within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per square. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of THERMglas s IV or THERMglass VI or PolyTHERM ply sheet adhered to insulation or base sheet with THERMastic, Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply or three or four plies of Approved Type IV or Type VI ply sheet adhered to insulation or base sheet with Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply.. (See specification number for appropriate number of plies).



**Surfacing:**

(Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with Double Duty Aluminum coating at  $\frac{3}{4}$  gal./sq
2. Flood coat of THERMastic and gravel at application rates of 3.5 gal./sq. and 400 lbs./sq., respectively.
3. Flood coat of BURMastic and gravel with applications rates of 4-5 gal./sq. and 400 lbs/sq., respectively.

**Maximum Design****Pressure:**

**-45 psf;** (See General Limitation #9.)



<b>Membrane Type:</b>	BUR
<b>Deck Type 3I:</b>	Concrete Decks, Insulated
<b>Deck Description:</b>	2500 psi structural concrete or concrete plank
<b>System Type B(2):</b>	Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ENRGY-3</b>		
<b>Minimum: 1.4" thick</b>	1, 2, 3 4, 5, 6, 10, 11	1:3 1:4
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:4
<b>ISO 95 + GL</b>		
<b>Minimum: 1.4" thick</b>	4, 5, 6, 13 4, 5, 6	1:3 1:4
<b>Multi-Max-3</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:2.9
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	See any approved fastener in table 3	1:2
<b>Miami Dade Approved High Density Wood Fiberboard</b>		
<b>Minimum: ½" thick</b>	See any approved fastener in table 3	1:4

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastener details.

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
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Any of the insulations listed for Base Layer, above.

**Note:** Apply top layer of insulation in a full mopping of approved hot asphalt applied within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Fas-n-Free Insulation Adhesive applied in ribbons at a coverage rate of 1.5 gallons per square. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of BURmastic Composite Ply, BURmastic Glass Ply or approved ASTM D 4601 fiberglass base ply sheet adhered in 3.5 gal./sq. ± 15% of BURmastic adhesive (See specification number for appropriate number of plies).



**Surfacing:**

(Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with one of the following:
  - a) Double Duty Aluminum coating at  $\frac{3}{4}$  gal./sq.
  - b) 60 lbs. #11 3M roofing granule's in wet Tremlastic S.
  - c) Crushed Stone, nominal  $\frac{3}{64}$ "- $\frac{3}{8}$ " at 240lbs./sq. in wet Tremlastic S.
2. Flood coat of BURMastic and gravel at application rates of 5-6  $\frac{1}{5}$  gal./sq. and 400 lbs./sq., respectively

**Maximum Design**

**Pressure:**

**-45 psf;** (See General Limitation #9.)



**Membrane Type:** BUR

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type C(1):** All layers of insulation simultaneously fastened.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II</b>		
<b>Minimum: 1.3" thick</b>	N/A	N/A
<b>ENRGY 3, Multi-Max-3</b>		
<b>Minimum: 1.4" thick</b>	N/A	N/A
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	N/A	N/A
<b>Miami Dade Approved High Density Wood Fiber</b>		
<b>Minimum: ½" thick</b>	N/A	N/A
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ENRGY-3</b>		
<b>Minimum: 1.4" thick</b>	1, 2, 3 4, 5, 6, 10, 11	1:3 1:4
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:4
<b>ISO 95 + GL</b>		
<b>Minimum: 1.4" thick</b>	13 4, 5, 6	1:3 1:4
<b>Multi-Max-3</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:2.9
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	See any approved fastener in table 3	1:2
<b>Miami Dade Approved High Density Wood Fiberboard</b>		
<b>Minimum: ½" thick</b>	See any approved fastener in table 3	1:4

**Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.**



**Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.

**Ply Sheet:** Three or four plies of THERMglass IV or THERMglass VI or PolyTHERM ply sheet adhered to insulation or base sheet with THERMastic, Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply or three or four plies of Approved Type IV or Type VI ply sheet adhered to insulation or base sheet with Premium III, Premium IV or Type III asphalt at 30 to 35 lb/sq for each ply.. (See specification number for appropriate number of plies).

**Surfacing:** (Required) Install one of the following:

1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with Double Duty Aluminum coating at  $\frac{3}{4}$  gal./sq
2. Flood coat of THERMastic and gravel at application rates of 3.5 gal./sq. and 400 lbs./sq., respectively.
3. Flood coat of BURMastic and gravel with applications rates of 4-5 gal./sq. and 400 lbs/sq., respectively.

**Maximum Design Pressure:** -45 psf; (See General Limitation #9.)



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**Membrane Type:** BUR

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type C(2):** All layers of insulation simultaneously fastened.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II</b>		
<b>Minimum: 1.3" thick</b>	N/A	N/A
<b>ENRGY 3, Multi-Max-3</b>		
<b>Minimum: 1.4" thick</b>	N/A	N/A
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	N/A	N/A
<b>Miami Dade Approved High Density Wood Fiber</b>		
<b>Minimum: ½" thick</b>	N/A	N/A
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ENRGY-3</b>		
<b>Minimum: 1.4" thick</b>	1, 2, 3 4, 5, 6, 10, 11	1:3 1:4
<b>ENRGY-3 Plus</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:4
<b>ISO 95 + GL</b>		
<b>Minimum: 1.4" thick</b>	13 4, 5, 6	1:3 1:4
<b>Multi-Max-3</b>		
<b>Minimum: 1.5" thick</b>	See any approved fastener in table 3	1:2.9
<b>Miami Dade Approved Perlite</b>		
<b>Minimum: ¾" thick</b>	See any approved fastener in table 3	1:2
<b>Miami Dade Approved High Density Wood Fiberboard</b>		
<b>Minimum: ½" thick</b>	See any approved fastener in table 3	1:4

**Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.**





- Base Sheet:** (Optional) BURmastic Composite Ply may be used in conjunction with ply sheet.
- Ply Sheet:** Three or four plies of BURmastic Composite Ply, BURmastic Glass Ply or approved ASTM D 4601 fiberglass base ply sheet adhered in 3.5 gal./sq.  $\pm$  15% of BURmastic adhesive (See specification number for appropriate number of plies).
- Surfacing:** (Required) Install one of the following:
1. Two part surfacing consisting of 4-5 gal./sq. of Tremlastic S surfaced with one of the following:
    - a) Double Duty Aluminum coating at  $\frac{3}{4}$  gal./sq.
    - b) 60 lbs. #11 3M roofing granule's in wet Tremlastic S.
    - c) Crushed Stone, nominal  $\frac{3}{64}$ "- $\frac{3}{8}$ " at 240lbs./sq. in wet Tremlastic S.
  2. Flood coat of BURMastic and gravel at application rates of 5-6  $\frac{1}{5}$  gal./sq. and 400 lbs./sq., respectively
- Maximum Design Pressure:** -45 psf; (See General Limitation #9.)



## CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

## END OF THIS ACCEPTANCE



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